947944

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NO.
UT UTD009667536

II. SITE NAME AND LOCATION				The state of the s
OI SITE NAME (Logo, common or	: descriptive name	e of site)		
Signetics Corporation			VIII 1	
02 STREET, HOUTE NO. OR SPECI	FICATION LOCATION	A IDENTIFIER		
1275 South 800 East			Orem	
04 STATE 05 ZIP CODE	06 COUNTY		NTY CODE	08 CONG DIST.
<u>Utah</u> 84057	<u> Utah</u>	49		01
09 COORDINATES LATITUDE 40 16 26.0	LONGITUDE 111 42 44.0			
STATE OF STA	Acquisition wilcome electrons grass			
10 DIRECTIONS TO SITE (Start i	ng from nearest p	oublic road)		
Facility north of University	Parkway on the ea	ast side of	800 east.	Tank located 300
ft. east of 800 east.	•			
Control of the second				
III. RESPONSIBLE PARTIES				
Ol OWNER (if known)	02			lling, residential)
Signetics Corporation		<u>811 E. Arq</u>	ues Avenue	
		DS ZIP CODE		
Sunny vale	CA	94086	(408)7	39-7700
07 OPERATOR (if known and dif	ferent from owner	r)		
Signetics Corp.		elieramany#domonomy papa#idilinchiospa.	and the second section and the second section and the second section and the second section and the second sec	
OB STREET (Business, mailing,	residential) 09			
1275 South 800 East		Orem	UT	
11 ZIP CODE 12 TELEPHONE NUMB				
84057 (801)225-6600				Конступент в выпункция объектория политиваться и учен поднесного социальную было на навывающим примененты вы-
13 TYPE OF OWNERSHIP (Check of			A ATATE	
X A. PRIVATE B. FEDERAL:			C. STATE	CO I to at all with a large
D. COUNTY E. MUNICIPA	E F. OTHER:		***************************************	G. LAKNOWN
14 OWNER/OPERATOR NOTIFICATIO	NI ONLETTE (Cheat.	(Speci		
		att cuer ab	btà)	
X A. RCRA 3001 DATE RECEI B. UNCONTROLLED WASTE SIT	AED 11/12/90	MIE DECETVE	m /	,
	E (CEROLA 10X) L	WIE WELETAG	<i>u</i>	COLUMN CO
C. NONE IV CHARACTERIZATION OF POTEN	TT01 40.7/100	entitions for compatibility and the action of the company of the c	arqued Direct conservation of courts are resident to the conservation of the court	
O) ON SITE INSPECTION BY (Che		2	CANADA SA CARRESTON AND PARTY OF THE PROPERTY	
YES DATE / /		A.EPA B.	EPA MNTRA	TAR
X NO		C. STATE D		
		. LOCAL HEA		
		F. OTHER:	Marie 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************
	•	A APLE & SHIP S. A. G.	(Specify)	CONTROL CONTROL OF THE CONTROL OF STREET CONTROL OF STREET CONTROL OF STREET
	ONTRACTOR NAME(S) :	(Acres à)	
02 SITE STATUS (check one)	THE RESIDENCE OF THE PARTY OF T			
X A. ACTIVE	B. INACTIVE	C	. UNKNOWN	
THE RESERVE OF THE PROPERTY OF	1980	present	AND THE PERSON OF THE PERSON O	Administration of the country of the College of the
BEG!	NNING YEAR EN	ING YEAR	UNKNOWN	
DA DESCRIPTION OF SUBSTANCES	POSSIBLY PRESENT	KNOWN OR AL	IEŒD	
Chemical analysis was perform	ed on the tank or	ontents by S	aignetics a	nd Oil and Solvent
Process Company. The major s	olvents present w	vere trichlo	roethane,	toluene, xylene,
cellosolve acetate, acetone,	and aliphatics.	Prior to No	vember 198	O, Signetics was
The second of the second	in at the north-low	3.4		_

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

IDENTIFICATION OL STATE OZ SITE NO. UT UTD009667536

IV CHAMACTERIZATION OF POTENTIAL HAZARD continued
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION The solvents stored in the tank had the potential for leakage into the groundwater and soil. The tank and solvents were removed. Soil samples and tank monitoring indicate no detectable solvents had escaped. EMCON Associates (San Jose) conducted a hydrologic and groundwater study for Signetics Corporation. Contamination was found in the shallow groundwater aquifer below the facility. The contamination is a result of the solvent spraying.

V PRIORITY ASSESSMENT

Ol PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 -Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

X B. MEDIUM

(inspection required promptly) (inspection required)

D. NONE

(inspect on time available basis) (No further action needed, complete current disposition form)

VI INFORMATION AVAILABLE FROM

OL CONTACT 02 OF (Agency, Organization) 03 TELEPHONE NUMBER

Connie S. Nakahara USDH/Solid & Hazardous Waste (801)533-4145

04 PERSON RESPONSIBLE FOR ASSESSMENT OF AGENCY OF ORGANIZATION OF TELEPHONE NO.

Dale Parker, Ph.D. USDH **BSHW** (801)533-4145

08 DATE

EPA FORM 2070-12(7-81)

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION
OI STATE 02 SITE NO.
UT UTD00966756

	E STATES, QUANTIT	IES. AND CHP	VRACTERIST	īcs			
JI FFILDI	CAL STATES (Creck			DZ WASTE QUA	NTITY AT	STIE	on Debugger and the Comment of the C
		E. SLURRY	, p = 3 ,		of waste		tion
6 8		F. LIQUID			t be inde		
		G. GAS				Jei iue ii	• 7
X C. S		a. UAS		AOT.			
U. U	THER	MEDICE SHE SHE SHE SHE SHE		CUBIC YARE			CONTO
	(Specify))		NO. OF DRUM	S		Haskon
	CHARACTERISTICS (et time in analon semicension	
A. T(. SOLUBLE		HIGHLY VOL/	WILE		
		. INFECTIOUS	j.	EXPLOSIVE			
		, FLAMMABLE		REACTIVE			
D. P	ERSISTENT H.	. IGNITABLE	L.	INCOMPATIBL	.E		
				APPLICABLE			
III. WAS						75 XX	
	SUBSTANCE NAME			11 02 WIT (
SLU	SLUCE		Princide Tel	rt in tank.	lauk atsb	oseo by	USPCI TSDF
OLW	OILY WASTE	milionano e spanis e constanti de di Serie e con e					
SQL	SOLVENTS		4000 gal.	solvent tra	insported a	and red	cycled into
PSD T	PESI ICIDES		DF2312 lac	quer wash by	Oil and	Solvent	Process Co.
OCC	OTHER ORGANIC CH	EMICALS	Unknown a	uanitities o	f organic	solver	nts were
IOC	INORGANIC CHEMIC			the soil			
ACO	ACIOS		- to the same of t		A. Carrier and Commercial Commerc	TO STATE OF THE PARTY OF THE PA	
BAS	BASS			*****		MATERIAL STATE OF THE STATE OF	
MES	FEAVY METALS					MARKET ALPHANISM	
	ROOUS SUBSTANCES (See Annendi	y formost	frequently	Cited CAS	Number	°C)
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01 CATEO	Builder of the Total Total and a first the state of the con-	NUMBER	DISPOSAL	05 0018061111			
ol catego	UKY NAME	NUMBER			u	ווייבושוו	ANI TOIA
			METHOD		. I5		
	Arsenic		Disposed			mg/1	
	Chione		by USPCI		.05	mg/l	rangin ang mga at mga at ang at a
SQL			Disposed b).3%		
	Ethylbenzene		Chemical		3.0%		
	n-Butyl Acetai		Management		7 %		THE PARTY OF THE P
	Xylene Isomo	ers		12	2.6%		
SQL	Trichlomet	nane 2523-89)_]		1%		
	*solvents spra	ved on soil	not spec	fied			de compressionem de la seguina de la seg La seguina de la seguina d
	substances for	und in EMO	N analysis	are as fo	llows:		
SOL	Tetrachlomet			ing on soil		unkno	WΩ
SQ.	Trichlomethy.		CO POV	ing on soil	CHANGE OF BUILDING STREET	unkno	
AND DESCRIPTION OF THE PERSON	Tomene in international contractions of the contraction of the contrac	108-88-	2 ~~~	ing on soil		unkno	and appropriate on the second
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SOL	<u>Benzene</u>	71-43-				- ACMININATION OF THE PARTY OF	THE RESIDENCE OF THE PERSON NAMED IN
SQ	Ethyl Benzene	100-41-					H. ANG CAN THE PROPERTY OF THE PARTY OF THE
	TOCKS (See Append:		<u> vunders)</u>			-	
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V. FEEDS					NAM	<u>.</u>	NUMBER
V. FEEDS	NAME	NUMER	Company of the Compan		THE REPORT OF THE PERSON NAMED IN COLUMN TWO	CLASSES SUCCESSION OF CONTRACT	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, T
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V. FEEDS CATEGORY FDS FDS FDS	NAME		er felegende te persone som en er er er en en er persone til det er et live til det er et live til det er et l Oppgevinnen på frem en er er en	FDS FDS	entaka suken sukela dala berakan berak Persakan berakan beraka Dan dalam berakan berak		
V. FEEDS CATEGORY FDS FDS			offic refe	FDS FDS	state f	iles.	eus per vise vene de meiro general constitución de indirección anticipativa de constitución de constitución de La electrica de meiro de indirección de constitución de constit

EPA FORM 2070-12(7-81)

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION O1 STATE 02 SITE NO. UT UTD009667536

11. HAZARDOUS CONDITIONS AND INCIDENTS
OLA. CPOUNDWATER CONTAMINATION OZ OBSERVED (DATE:) POTENTIAL
03 POPULATION POTENTIALLY AFFECTED: 64,000 X ALLEGED
04 NARRATIVE DESCRIPTION
Groundwater generally flows southwest. Borings on the facility located groundwater
approximately 80 ft. deep in a permemble coarse sand and gravel layer. The tanks
liquid level was monitored weekly and no drops in level were noted. A study conducted
by EMCON Associates (1982) for Signetics indicated contamination of the shallow aquifer
below the facility. Three on-site shallow aquifer wells were drilled for the
investigation. Well #1 was located in the north east portion of the parking lot.
Trichloroethylene, tetrachloroethane, benzene, toluene, and ethylbenzene were found in
the samples. Well #3 showed trichloroethylene and 1, 1, 1-trichloroethane present.
Tetrachloroethane and ethylbenzene were found in Well #4. EMCON Associates found no
evidence of deep aquifer contamination. (BSHW file)
OI B. SURFACE WATER CONTAMINATION OZ OBSERVED (DATE:) X POTENTIAL
04 NARRATIVE DESCRIPTION
Provo River runs a 1/4 mile southeast of the facility. Provo River runs into Utah
Lake. Soil samples and tank monitoring indicate no apparent leakage of solvents.
Contamination of the shallow groundwater aquifer occurred.
O1 C. CONTAMINATION OF AIR O2 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1,360 04 NARRATIVE DESCRIPTION
No recorded history.
01 D, FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE:) POTENTIAL
03 POPULATION POTENTIALLY AFFECTED: 1,900 ALLEGED
04 NARRATIVE DESCRIPTION
No recorded history. Underground tank containing flammable solvents were removed and
disposed.
disposed. 01 E. DIRECT CONTACT 02 OBSERVED (DATE:) X POTENTIAL ALLEGED
disposed. 01 E. DIRECT CONTACT 02 OBSERVED (DATE:) X POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 1,360 04 NARRATIVE DESCRIPTION
disposed. Ol E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are
disposed. Ol E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson,
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Ol E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USDH) O1 F. CONTAMINATION OF SOIL O2 OBSERVED (DATE:) POTENTIAL X ALLEGED O3 AREA POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTBL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. O1 G. DRINKING WATER CONTAMINATION O2 OBSERVED (DATE:) X POTENTIAL O3 FORULATION POTENTIALLY AFFECTED: 64,000
disposed. Ol E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USOH) OI F. CONTAMINATION OF SOIL O2 OBSERVED (DATE:) POTENTIAL X ALLEGED O3 AREA POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTEL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. OI G. DRINKING WATER CONTAMINATION O2 OBSERVED (DATE:) X POTENTIAL O3 FORLATION POTENTIALLY AFFECTED: 64,000 ALLEGED
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Ol E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USDH) Ol F. CONTAMINATION OF SOIL O2 OBSERVED (DATE:) POTENTIAL X ALLEGED O3 AREA POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTBL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. Ol G. DRINKING WATER CONTAMINATION O2 OBSERVED (DATE:) X POTENTIAL O3 POPULATION POTENTIALLY AFFECTED: 64,000 Q4 NARRATIVE DESCRIPTION Soil samples and tank monitoring indicate no significant levels of solvents escaped tank. An Orem City drinking water well is located a 1/2 mile south of the facility.
disposed. Ol E. DIRECT CONTACT Ol OBSERVED (DATE: Old NARRATIVE DESCRIPTION) The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USDH) Ol F. CONTAMINATION OF SOIL Old Observed (DATE: Old NARRATIVE DESCRIPTION) The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTBL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. Ol G. DRINKING WATER CONTAMINATION Old Observed (DATE: Old POPULATION POTENTIALLY AFFECTED: 64,000 Old NARRATIVE DESCRIPTION Soil samples and tank monitoring indicate no significant levels of solvents escaped tank. An Orem City drinking water well is located a 1/2 mile south of the facility. Sample analysis show no evidence of contamination. The water from the Orem well is
disposed. Ol E. DIRECT CONTACT Ol OBSERVED (DATE: Ol NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USDH) Ol F. CONTAMINATION OF SOIL Ol OBSERVED (DATE: Ol NARRATIVE DESCRIPTION The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTBL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. Ol G. DRINKING WATER CONTAMINATION Ologober Very Contamination of the sevel of solvents escaped tank. An Orem City drinking water well is located a 1/2 mile south of the facility. Sample analysis show no evidence of contamination. The water from the Orem well is drawn from a deep water coulier. The deep water and shallow water supply zones are
OI E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360
disposed. OI E. DIRECT CONTACT O2 OBSERVED (DATE:) X POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: 1,360 O4 NARRATIVE DESCRIPTION The entire facility is fenced in with the entrance monitored security guards are present on the facility. The area containing the solvents is secure. (Kurt Nelson, USDH) OI F. CONTAMINATION OF SCIL O2 OBSERVED (DATE:) POTENTIAL X ALLEGED O3 AREA POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION The area has a coarse sand and gravel layer from 118 to 140 ft. deep. A gray clay layer lies below the sand and gravel. Six soil samples were taken at various locations around the tank in compliance with UTBL recommendations. No detectable levels were found for any of the sevel major volitile organic solvents held in tank. Samples taken 11/18/83. Solvent wastes in unknown quantities were sprayed on the soil (parking lot) prior to November 1980. OI G. DRINKING WATER CONTAMINATION O2 OBSERVED (DATE:) X FOTENTIAL O3 POPULATION POTENTIALLY AFFECTED: 64,000 ALLEGED O4 NARRATIVE DESCRIPTION Soil samples and tank monitoring indicate no significant levels of solvents escaped tank. An Orem City drinking water well is located a 1/2 mile south of the facility. Sample analysis show no evidence of contamination. The water from the Orem well is drawn from a deep water coulfer. The deep water and shallow water supply zones are separated by clay layers. Water is transmitted between water zones during certain precipitation periods. Contaminants from the shallow aquifer below the facility have
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a december.

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - SITE INFORMATION AND ASSESSMENT

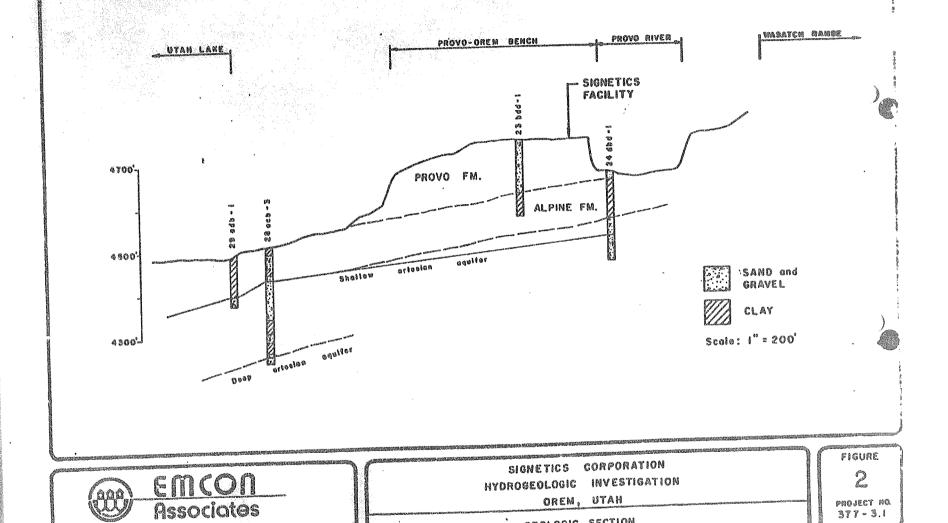
I. IDENTIFICATION
OL STATE 02 SITE NO.
UT UTD009667536

 BPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - SITE INFORMATION AND ASSESSMENT

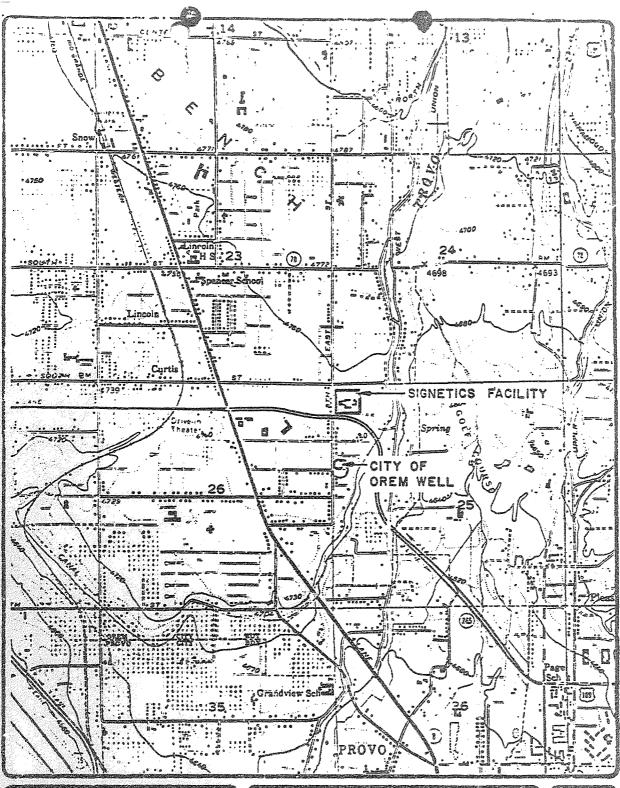
I. IDENTIFICATION
OI STATE 02 SITE NO.
UT UTD00966756

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)
01 J. DAMAGE TO FLORA 02 OBSERVED (Date:) X POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION
Potential exists if contamination of surface and groundwater occurs.
01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE:) X POTENTIAL ALLEGED
04 NARPATIVE DESCRIPTION
Potential exists if contamination of surface and groundwater occurs.
O1 L. CONTAMINATION OF FOOD CHAIN O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION X ALLEGED
Potential exists if contamination of surface and groundwater occurs.
01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (Date:) POTENTIAL
(Soils/runoff/standing liquids/leaking drums) X ALLEGED 03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
The noncorrosive flammable solvents were contained in the underground tank. The tank was removed and disposed during 1983. Soil was contaminated from the spraying of
unknown quantities of solvents on the parking lot.
Ol N. DAMAGE TO OFFSITE PROPERTY O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION ALLEGED
No recorded history.
OL O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE:)
No recorded history. The concrete pad area that stored drums was rinsed with deignized
water (pH 5.5). The rinse water had a pH of 6.5 indicating no residual corrosive
material. Any runoff into sewers and drains should also indicate no residual corrosive material. (Test performed by Signetics.) Soil was contaminated in the parking lot area,
thus a potential of sewer, storm drains, and WWTPs contamination exists from runoff.
OI P. ILLEGAL/UNAUTHORIZED CUMPING O2 OBSERVED (DATE:) POTENTIAL
O4 NARRATIVE DESCRIPTION X ALLEGED Spraying of unknown quantities of solvent wastes occurred until November 1980.
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS
None
ILLE TOTAL POPULATION POTENTIALLY AFFECTED: 64,000
IV COMENIS
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files,
sample analysis, reports)
U.S.D.H. Bureau of Solid and Hazardous Waste Files Orem City Public Works phone conversation
Kurt Nelson, Utah State Health Department, Bureau of Solid and Hazardous Waste
EPA FORM 2070-12(7-81)



San Jose, California

GEOLOGIC SECTION





SIGNETICS CORPORATION
HYDROGEOLOGIC INVESTIGATION
OREM, UTAH
LOCATION MAP

FIGURE

MOJECT NO
377-3.1

INOO SOUTH EXISTING BULLDING Waste water neut. system 20' x 20' waste chem. storage PARKING SUB-STATION Ç≅:a≟=: ## [*, #4 3E